Lesson 2.3 Practice: Equations with Variables on Both Sides

School Launch · Algebra I · Unit 2: Solving Linear Equations · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Solve: $3x - 15 = -7x + 35$. EASY

2. Solve: $9x + 14 = -2x - 74$. EASY

3. Solve: $-9x + 5 = x - 85$. EASY

4. Solve: $5(-9x + 14) = 30x - 305$. MEDIUM

5. Solve: $4(5x - 14) = -12x - 280$. MEDIUM

6. Solve: $5(8x - 20) = -10x - 550$. MEDIUM

7. Solve: $2(3x + 4) = 18x + 56$. MEDIUM

8. Solve: $6x + 13 - 7x = 0x + 17$. HARD

9. Solve: $-4x - 8 - 3x = 0x - 71$. HARD

10. Solve, or state “no solution” or “all real numbers”: $7x - 11 = 7x - 8$. HARD